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(54) Title: AMINO ACID SEQUENCES FACILITATING PENETRATION OF A SUBSTANCE OF INTEREST INTO CELLS  
AND/OR CELL NUCLEI

(57) Abstract: The present invention relates to an amino acid sequence being able to facilitate penetration of a substance of interest inside cells and/or cell nuclei and having the following formula (I)  $[(X_1)_p [(X_0)_n (B)_n X B X X B]_m (X_2)_q]$  Wherein  $X_1$  and  $X_2$  are amino acid sequences of 1 to 20 amino acids; p and q are whole numbers between 0 and 5; B is a basic amino acid; X is a non-basic, preferably hydrophobic amino acid, such as alanine, isoleucine, leucine, methionine, phenylalanine, tryptophan, valine or tyrosine; n is 2 or 3; m is 1 to 4; o is 0 or 1. between 0 and 5; B is a basic amino acid; X is a non-basic, preferably hydrophobic amino acid, such as alanine, isoleucine, leucine, methionine phenylalanine, tryptophan, valine or tyrosine; n is 2 or 3; m is 1 to 4; o is 0 or 1.

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